DEH-P813

MULTI-CD/DSP CONTROL HIGH POWER
CD PLAYER WITH FM/AM TUNER

SUPER TUNER IV

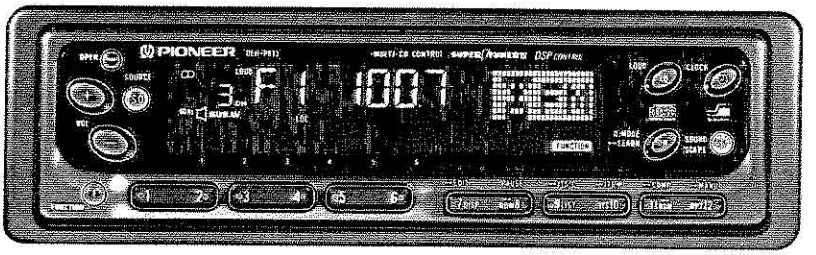
OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prendre soin de lire ce manuel.

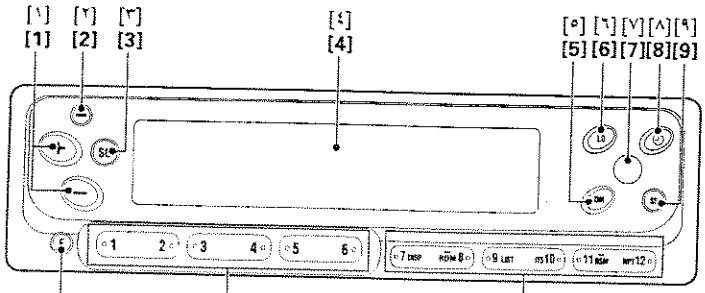
Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

شكرا لك على شرائك جهاز بايونير هذا. قبل محاولة تشغيله تأكد من قراءة هذا الدليل.

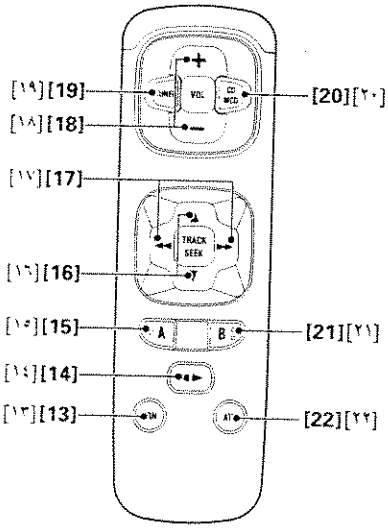


PIONEER®

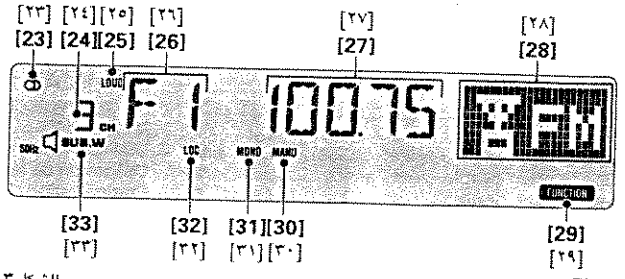
The Art of Entertainment



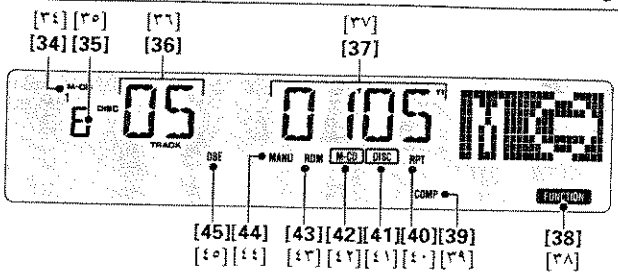
الشكل ١ Fig. 1



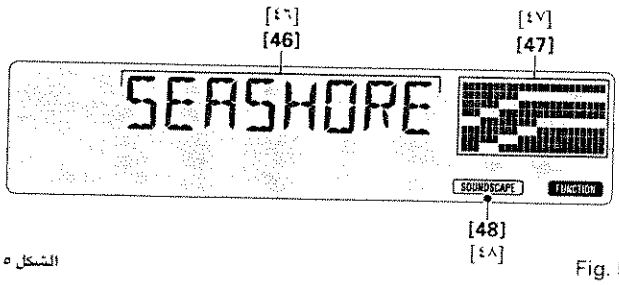
الشكل ٢ Fig. 2



الشكل ٣ Fig. 3



الشكل ٤ Fig. 4



الشكل ٥ Fig. 5

Precautions

Note:

- If the car's battery is disconnected for any reason, the preset memory will be erased and must be reprogrammed after reconnection of the battery.

CAUTION:USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION:THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

In case of trouble

When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

Before Using the Unit

Supplied CD Software

The supplied CD software contains sound effects for use with the SOUND SCAPE function. Please refer to "SOUND SCAPE" on page 22 and the instruction manual of the CD software before using the unit.

Note to Customers Using this Unit in Combination with the "DEQ-P800" Hideaway DSP

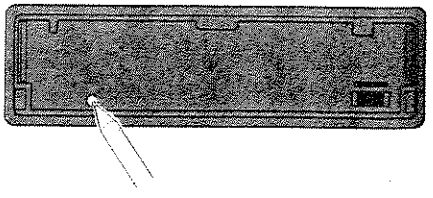
This manual does not describe operating procedures for combined use with the "DEQ-P800" Hideaway DSP. Please refer to the Hideaway DSP Owner's Manual for DSP operating details.

Using the Clear Button

Pressing the Clear button will reset the microprocessor. Press the Clear button in the following cases:

- When using the unit for the first time after connecting it.
- When there is a misoperation.
- When the display indicates a misoperation.

Remove the front panel and use the tip of a pen, etc., to press the Clear button. (To remove the front panel, refer to "Detaching the Front Panel".)



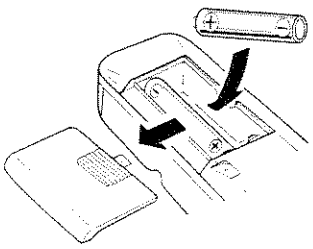
Using the Remote Controller

Parts Identification

Fig. 1
[7] Remote Controller Sensor

Fig. 2
[21] DSP

Inserting the Batteries

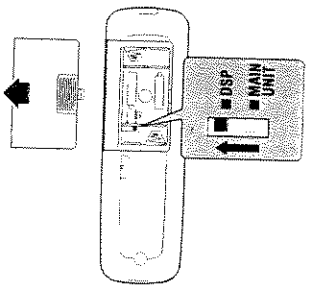


Precautions

- *Do not place the remote control unit in high temperatures or in direct sunlight.*
- *Install the batteries in the proper direction.*
- *Use only UM-4, AAA, or IEC R03 1.5 V batteries.*
- *Do not mix old and new batteries.*
- *The batteries provided with the unit are not rechargeable. Therefore do not recharge them.*
- *If the remote control unit is not to be used for more than a month, remove the batteries.*
- *If there is battery leakage, wipe the leakage completely and install new batteries.*
- *Hold the remote controller with your hand and point it toward the remote controller sensor [7] when performing an operation.*
- *It is extremely dangerous if the remote controller should fall to the floor and become lodged under the brake pedal when braking or cornering. When you are not using the remote controller, always keep it in place with the Velcro tape provided.*
- *It may not be possible to perform remote control operations if the remote controller sensor [7] is exposed to direct sunlight.*
- *Button [21] is used when the unit is combined with a DSP.*

Note to Customers Using this Unit in Combination with a DSP except for the "DEQ-P800" Hideaway DSP

When using this unit in combination with a DSP except for the "DEQ-P800" Hideaway DSP, first set the switch on the rear of the remote controller to the DSP position, using the tip of a pen, etc. The system will not work properly unless this is done.



Using the Removable Front Panel

Parts Identification

Fig. 1
[2] Open
[4] Front Panel
[11] ③ Warning Buzzer ON/OFF

Function

To prevent theft, the front panel is detachable. Also, if the front panel is not detached within 5 seconds after the car's ignition is turned off, a warning beep tone will sound to remind you to detach the front panel.

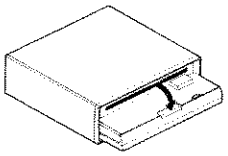
Canceling the Warning Beep Tone

The warning beep tone function can be canceled. While pressing button ③ of bank [11], turn the ignition key from OFF to ON. To turn ON the warning beep tone function again, repeat this operation.

ENGLISH

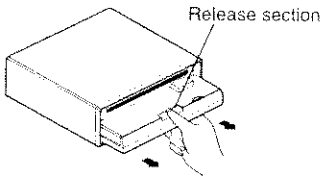
Detaching the Front Panel

1. Press button [2], and the front panel [4] will open.



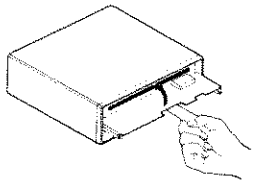
2. Grip the release section and pull the front panel forward.

- *Take care not to grip the front panel display tightly, or to drop the panel.*

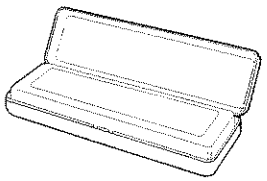


3. Close the inner cover.

- *After detaching the front panel, be sure to close the inner cover to prevent dirt, dust or other foreign matter from entering the disc slot.*



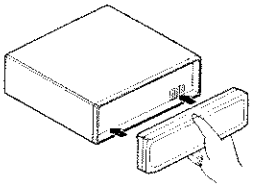
4. Keep the detached front panel in the protective case provided.



Fitting the Front Panel

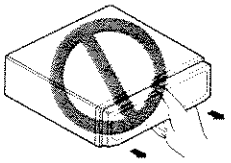
1. Check that the inner cover is closed.
2. Press the front panel onto the body of the unit.

- *Take care not to press any buttons or the display while doing this.*

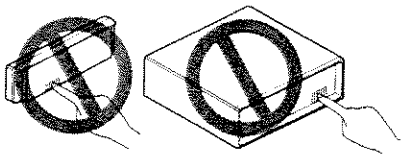


Precautions

- *Do not use unnecessary force in detaching the front panel.*



- *Do not hold the display tightly.*
- *Do not subject the front panel to excessive shock.*
- *Do not place the front panel in high temperatures or direct sunlight.*
- *Do not use benzene, paint thinner, or other volatile fluids to clean the front panel.*
- *Do not disassemble the front panel.*
- *Do not touch the terminals on the front panel and unit. (If the terminals are dirty, use a clean dry cloth to clean.)*



Switching the Source

Parts Identification

Fig. 1
[3] Source Switching
[10] ⑦ AUX ON/OFF

Fig. 2
[19] Source Switching (Tuner)
[20] Source Switching (Built-in CD player, Multi-CD Player)

Switching the Source on the Main Unit

Each time button [3] is pressed, the source changes in the following sequence:
Built-in CD player — Tuner — Multi-CD player — OFF

Switching the Source Using the Remote Controller

Each time button [19] is pressed, the source changes in the following sequence:
Tuner — OFF
Each time button [20] is pressed, the source changes in the following sequence:
Built-in CD player — Multi-CD player — OFF

- If there is no disc in the built-in CD player, the source will not change to built-in CD player.
- The source will not be switched to the multi-CD player if a multi-CD player is not connected, or if a magazine is not loaded in the player.

When connecting other audio equipment to the IP-BUS terminal of the main unit using the separately sold conversion cord

When listening to the audio equipment, carry out the following operations to switch to AUX mode.

1. While pressing ⑦ of button [10], turn the ignition key from OFF to ON.
2. Switching sources allows selection of AUX mode. Therefore, press button [3] to switch to AUX mode.
   Built-in CD player — Tuner — Multi-CD player — AUX — OFF

- When performing an operation with the remote controller, the source is not switched to AUX.

Switching the Display

Parts Identification

Fig. 1
[5] Display Switching

Fig. 3
[28] Message Display

Switching the Message Display

Display [28] changes as follows each time button [5] is pressed:
Source and mode symbol — Signal indicator

When the Unit is Used in Combination with the "DEQ-P800" Hideaway DSP

When the unit is used in combination with the "DEQ-P800" Hideaway DSP, display [28] changes as follows each time button [5] is pressed:
Source and mode symbol — Signal indicator — SFC* symbol — Equalizer curve
*SFC: Sound Field Control

- Display [28] is useful for checking the SFC and qualizer curve settings.

Making Audio Adjustments

Parts Identification

Fig. 1
[1] Volume
[6] Loudness

Fig. 2
[15] Shift/SLA
[16], [17] Audio Adjustment
[18] Volume
[22] Attenuator

Fig. 3
[25] Loudness
[33] Sub-woofer

Mode Switching

Each time button [15] is pressed, the mode changes in the following sequence:
Volume adjustment (VOL) → Balance adjustment (FAD/BAL) → Tone adjustment (BAS/TRE) → Sub-woofer (SUB.W)

- When a fader, balance, or bass/treble adjustment is made, the adjustment stops temporarily at the center position. The display changes back to its previous state approximately 8 seconds after an adjustment is made.

When the Unit is Used in Combination with the "DEQ-P800" Hideaway DSP

When the unit is used in combination with the "DEQ-P800" Hideaway DSP, the mode changes in the following sequence each time button [15] is pressed:
Volume adjustment (VOL) → Balance adjustment (FAD/BAL) → Automatic volume adjustment (ASL) → Sub-woofer (SUB.W)

- The mode will not be switched to Tone adjustment.
- Please refer to the Hideaway DSP Owner's Manual for the use of automatic volume adjustment (ASL).

Adjusting the Volume

The volume is increased by pressing the (+) side of button [1] or [18], and decreased by pressing the (–) side. (Display shows "VOL 00" ~ "VOL 30".)

- *When driving, the volume should be adjusted to a level that allows sounds outside the vehicle to be heard.*

Adjusting the Balance

Press button [15] to select the balance adjustment mode ("FAD" lights). Fader adjustments are made using the ▲ or ▼ side of button [16]. To adjust the balance, press either the ◀◀ or ▶▶ side of button [17] to display "BAL", then make the adjustment with the ◀◀ or ▶▶ side of the button.

Fader

The balance is gradually changed to front speaker sound only, by pressing the ▲ side of button [16], and to rear speaker sound only, by pressing the ▼ side. (Display shows "FAD F9" ~ "FAD R9".)

- When a two-speaker system is used, you should set "FAD 0".

Balance

The balance is gradually changed to left speaker sound only, by pressing the ◀◀ side of button [17], and to right speaker sound only, by pressing the ▶▶ side. (Display shows "BAL L9" ~ "BAL R9".)

Adjusting the Tone

Press button [15] to select the tone adjustment mode ("BAS" lights). Use the ◄◄ or ►► side of button [17] to select the tone you want to adjust. Pressing the ◄◄ side selects BAS, and pressing the ►► side selects TRE.

Bass Adjustment

Select the bass adjustment mode. Bass intensity is gradually increased by pressing the ▲ side of button [16], and decreased by pressing the ▼ side. (Display shows "BAS –6" ~ "BAS +6".)

Treble Adjustment

Select the treble adjustment mode. Treble intensity is gradually increased by pressing the ▲ side of button [16], and decreased by pressing the ▼ side. (Display shows "TRE –6" ~ "TRE +6".)

Sub-woofer

When a sub-woofer is used with the unit, the sub-woofer setting should first be switched to ON.

Using the Sub-woofer Function

1. Press button [15] repeatedly to change to the sub-woofer mode ("80Hz 0" is displayed).
2. When button [15] is pressed for 2 seconds or more, "SUB.W" [33] lights, and the sub-woofer setting changes to ON.
3. To cancel the sub-woofer function, press button [15] repeatedly to change to the sub-woofer mode, and press button [15] for 2 seconds or more while the sub-woofer display is shown.

Adjusting the Frequency and Output Level

1. Press button [15] repeatedly to change to the sub-woofer mode.
2. Adjust the frequency and output level adjustment while the sub-woofer display is shown. Press the ◄◄ or ►► side of button [17] to adjust the frequency, and press the ▲ or ▼ side of button [16] to adjust the output level. The frequency can be set to 50 Hz, 80 Hz, or 125 Hz, and an output level can be selected in the range from –6 to +6.

Adjusting the Loudness

The loudness function compensates for deficiencies in the low and high sound ranges when listening to the unit at low volume.

Press button [6] to turn the loudness function ON ("LOUD" [25] lights). To cancel the loudness function, press button [6] again ("LOUD" goes off).

Using the Source Level Adjuster

This function compensates for the difference in volume when the source is switched.

- Compensation is performed on the basis of the FM volume, and therefore the FM volume cannot be adjusted.

1. Check the FM volume.
2. Switch to the source you want to adjust, and check the difference in volume between that source and FM.
3. Press button [15] for 2 seconds or more to change to the SLA mode. The current level, "V 0", is displayed.

- The SLA mode is canceled after 8 seconds.

4. Adjust the volume level by pressing the ▲ or ▼ side of button [16]. (Display shows "V –4" ~ "V +4".)

Attenuator

Pressing button [22] reduces the volume by approximately 90% ("ATT" flashes). The original volume is restored by pressing the button once again.

Using the Tuner

Parts Identification

Fig. 1
[3] Source Switching
[10], [11] Preset
[10] Functions
⑨ Local Mode/Local Sensitivity
⑪ Preset Scan/BSM
⑫ FM Monaural/Seek, Manual Switching
[12] Function Switching

Fig. 2
[14] Band
[16] Preset Tuning
[17] Tuning
[19] Source Switching

Fig. 3
[23] FM Stereo
[24] Preset Number
[26] Band
[27] Frequency
[29] Function
[30] Manual
[31] FM Monaural
[32] Local Mode

Changing the Tuning Steps

The main unit permits two kinds of tuning steps to be set up. As the tuning step varies from one region to another, switch the tuning step to match the region in which the unit is used.

AM Band

The AM band can be set at either 9 kHz or 10 kHz (the initial setting is 9 kHz). Turn the vehicle ignition to ON while pressing ② of button [11] to switch between 9 kHz and 10 kHz.

FM Band

The FM band can be set at either 100 kHz or 50 kHz (the initial setting is 100 kHz). Turn the vehicle ignition to ON while pressing ① of button [11] to switches between 100 kHz and 50 kHz.

- Carrying out seek tuning when the FM band is set at 50 kHz may cause the tuning to stop just before the broadcast station. Should this occur, perform the tuning again using either manual or seek tuning.

Function Switching

Button [10] has two functions. It switches FM monaural, BSM, etc. ON and OFF, and it also serves as the preset button for the FM1 band. Press button [12] to switch the function as desired.

Functions ON ([29] lit)

To use the buttons in bank [10] with functions such as FM monaural and BSM, set functions ON.

Functions OFF ([29] off)

Leave the function OFF when using button [10] as the preset button for the FM1 band.

Listening to the Radio

1. Press button [3] or [19] to switch the source to the tuner.
2. Press button [14] to select the band. The band changes each time the button is pressed as follows:
   FM1 → FM2 → AM
3. Select a station using manual tuning or seek tuning.
   3-1. Pressing button ② of bank [10] for 2 seconds or more switches between seek and manual tuning alternately. When manual tuning is selected, "MANU" [30] lights.
   3-2. Tune by pressing the ◀◀ or ▶▶ side of button [17]. (When a stereo station is tuned in, "⟩⟩" [23] lights.)

- When the function is OFF, switching between seek and manual tuning can not be done in FM1 stations. Press button [12] to turn the function ON.

Seek Tuning
When the button is pressed, a station with a signal of a given strength or greater is tuned in automatically.

Manual Tuning
When the button is pressed, the frequency changes step by step.

Preset Memory

The radio stations can be stored in memory under buttons ① to ⑥ of [11].

- FM1 bands can be stored in the memory of button [10] (⑦ to ⑫). Leave the function OFF when storing memory into button [10].

1. Tune in to the station to be stored in memory.
2. Store the station in memory by pressing one of the buttons (① to ⑥) for at least 2 seconds. When the [24] number stops blinking and there is a beep, the station will be stored in memory under the button pressed.

- Up to 18 FM stations (12 stations on FM1 and 6 stations on FM2) and 6 AM stations can be stored in memory.

Preset Tuning

The radio stations stored in memory can be recalled by pressing the respective button ① to ⑥ of [11]. The station stored under that button will be recalled. (The number of the button pressed will be displayed at [24].)

- The FM1 band can recall broadcast stations stored in the memory of button [10]. Set functions OFF before recalling a station memorized in one of the buttons in bank [10].
- When using the remote controller, a station memorized in a button in bank [10] or [11] can be recalled by pressing the ▲ or ▼ side of button [16].

Note:
When using a button in bank [10] in the operations in the following sections, turn functions ON first.

BSM (Best Stations Memory)

The radio stations having a strong signal can be tuned automatically and stored in memory under buttons ① to ⑥ of [11]. Press ⑪ of button [10] for at least 2 seconds. (The "BSM" will blink.) After "BSM" stops blinking, the stations will be stored in memory under buttons ① to ⑥ of [11].

- The FM1 band can also be stored in the memory of button [10].
- BSM can be canceled mid-operation by pressing ⑪ of button [10].
- The stations will be stored under buttons ① to ⑥ in the order of their signal strength. The strongest station will be stored under button ①, followed by stations with lower signal strengths.
- If there are fewer than 6 stations whose signal is strong, there will be spare memory.
- It will take almost 30 seconds for BSM to be completed.

Preset Scan Tuning

This recalls in sequence all the stations stored in memory under the buttons [11] for 8 seconds each. Press ⑪ of button [10]. (The [24] number will blink.) To cancel, press the button again. After the desired station is tuned, cancel the preset scan tuning. The station will then continue to be received.

- Stations stored in memory under the buttons [11] but whose signal is weak will not be recalled.
- The FM1 band can recall broadcasting stations stored in the memory of button [10].

ENGLISH

Local Seek Tuning

When the local mode is selected, seek tuning sensitivity changes and only stations with a stronger signal than in the case of normal seek tuning are tuned to. The local mode sensitivity can also be adjusted.

To Select Local Mode

Press button ⑨ of bank [10]. ("LOC" [32] lights.) To cancel local mode, press the button once again.

Adjusting Local Seek Sensitivity

The sensitivity can be adjusted in 4 steps for FM and 2 steps for AM.

- LOC-4 tunes in only the stations with the strongest signals, and LOC-3, LOC-2, and LOC-1 tune in stations with progressively weaker signals.

1. Select the local seek sensitivity adjustment mode. Press button ⑨ of bank [10] for 2 seconds or more. (The current sensitivity is displayed.)
   - The local seek sensitivity adjustment mode is canceled after approximately 5 seconds.
2. Press the ◄◄ or ►► side of button [17] to adjust the sensitivity.

FM Monaural Reception

If the noise in a stereo broadcast is distracting, you can reduce the noise by switching to monaural reception. Press button ⑫ of bank [10]. ("MONO" [31] lights.) To cancel monaural reception, press the button once again.

Playing a CD

A separately available multi-CD player (such as the CDX-P1210) can be controlled as well as the built-in CD player.

Precautions When Using the Multi-CD Control

- If the IP-BUS extension adapter is used, up to 4 multi-CD players can be connected. When two or more CD players are connected, their priorities must be specified for the Multi-CD players. See the Multi-CD players instructions and set the address switches correctly.

Parts Identification

Fig. 1

[3] Source Switching
[10], [11] Disc Number Search
[10] Functions
⑦ Display Switching/Disc Title
⑧ Pause/Random Playback
⑨ Title List/ITS Clear
⑩ ITS/ITS Playback
⑪ Scan Playback/Digital Compression
⑫ Playback Mode Switching
/Track Number Search–
Fast Forward, Reverse Switching
[12] Function Switching

Fig. 2

[14] Multi-CD Player Switching
[16] Disc Number Search
[17] Track Number Search/
Fast Forward, Reverse
[20] Source Switching

Fig. 4

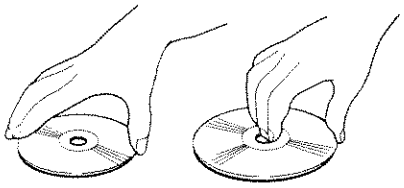
[34] Multi-CD Player Number
[35] Disc Number
[36] Track Number
[37] Playback Time
[38] Function
[39] COMP
[40] One Track Repeat
[41] Disc Repeat
[42] Magazine Repeat
[43] Random
[44] Fast Forward/Reverse
[45] DBE

Discs

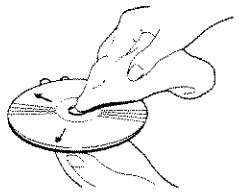
- *Only use compact discs (optical digital audio discs) bearing the mark shown below.*

COMPACT disc DIGITAL AUDIO

- *Do not use cracked, scratched, or warped discs.*
- *Do not touch the disc's playing side. Handle the disc as shown below.*



- *Do not affix any label on the disc.*
- *Do not apply any vinyl record spray, anti-static agent, benzene, paint thinner, or any other volatile chemicals.*
- *Do not play a dirty disc. Use a soft cloth to clean a dirty disc as shown below. Wipe the disc outward from the center.*



- *Do not place the disc in high temperatures and direct sunlight.*
- *Be sure to store the disc in its case.*

CD Playing Environment

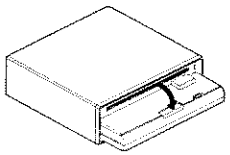
- Disc playback may be interrupted by sudden road shock.
- When the air temperature is low and the car heater is turned on, condensation on the disc and internal parts of the unit may prevent proper playback operation. If this happens, turn off the unit and wait one hour until the condensation is gone. Also, use a soft cloth to wipe off any condensation from the disc.

Using the Built-in CD Player

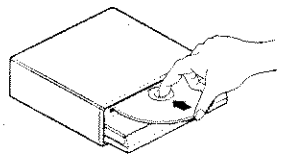
Note:

- *Check that no disc is loaded, then insert a disc.*
- *Do not insert two discs together, as this will damage the unit.*
- *This unit can play an 8 cm CD without an adapter. Do not use an adapter when inserting an 8 cm CD, as the adapter may become detached and prevent the disc from being removed.*

1. Press button [2] to open the front panel [4].

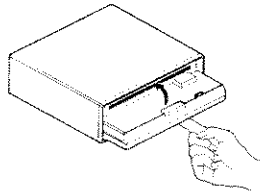


2. When a disc is inserted in the disc slot, the power is turned on and CD playback starts.

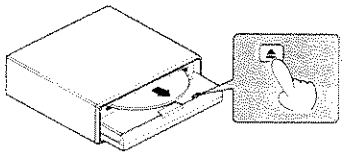


Insert the disc with the recorded surface (iridescent surface) down.

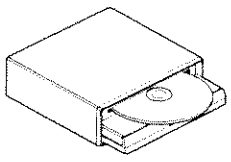
3. Close the front panel and adjust the volume and tone. (The track number [36] and playing time [37] are shown on the display.)



4. To stop playback, press button [3] or [20] to set the source to OFF.
5. To eject the disc, first press button [2] to open the front panel [4], then press the Eject button.



- If a disc is already loaded, CD playback can be turned ON/OFF by pressing button [3] or [20]. When CD playback is turned ON again, it will begin near the track at which playback was stopped.
- If a disc cannot be fully inserted, or playback does not start after a disc has been inserted, there is probably something wrong with the disc. In this case, check the disc for abnormalities.
- If the built-in CD player cannot be operated properly, an error message will appear on the display (e.g. "ERROR-14"). In this case, refer to "Error Display" on page 21 to identify the nature of the error.
- If the disc has been inadvertently inserted with the recorded surface (iridescent surface) facing upward in step 2, the disc will be ejected automatically when the front panel is opened. If the front panel is closed, the disc will not be ejected (and playback does not start). In this case, open the front panel, press the Eject button, and remove the disc.
- Do not leave a disc partially inserted as shown in the illustration below, as the disc may bend or fall out.



Using the Multi-CD Player

1. Press button [3] or [20] to switch the source to the multi-CD player. (The multi-CD player number [34], disc number [35], track number [36], and playback time [37] are displayed.)
   - When you turn the power on or change the disc to be played, the multi-CD player may perform a preparatory operation (verifying there is a disc, reading disc information, etc.). "READY" is displayed during this time.
   - If the multi-CD player is unable to operate normally, an error message will appear on the display (e.g. "ERROR-80"). In this case, refer to "Error Display" on page 21 to identify the nature of the error.
2. To stop disc playback, press button [3] or [20] to switch the source OFF.
   - When CD playback is started again, it will begin near the track at which playback was stopped.

Switching functions

(multi-CD player's function)

Button [10] has two functions. It switches ITS, random playback, etc. ON and OFF and it also serves as the disc number search. Press button [12] to switch the function as desired.

- If a 6-Disc Multi-CD player is connected, switching between functions ON and OFF cannot be performed even if button [12] is pressed.

Functions ON ([38] lit)

When using buttons in bank [10] with a function such as ITS or random playback, you should first turn functions ON.

Functions OFF ([38] off)

When using buttons in bank [10] to search the disc number, you should first turn functions OFF.

Switching the multi-CD player

(multi-CD player's function)

A maximum of 4 multi-CD players can be connected to this unit.
Press button [14] to choose the desired CD player. The number of the CD player is indicated in [34] on the display.

Disc number search

(multi-CD player's function)

Select the disc using buttons [10] and [11]. The disc number is indicated in [35] on the display.

- Leave the function OFF when selecting a disc using button [10].
- When using the remote controller, the disc, set in the multi-CD player is switched each time the ▲ or ▼ side of button [16] is pressed.
- It takes a few seconds for CD playback to begin after a button is pressed. This is the time taken to change the disc.

Note:
Leave the function ON when using button [10] for the following operations.

Track Number Search

The track number search function lets you select a particular track on a disc. Check that "MANU" does not light in display [44]. If it does, turn it out by pressing button ⑫ of bank [10] for 2 seconds or more.
The track number [36] is incremented by pressing the ▶▶ side of button [17], and decremented by pressing the ◀◀ side. Holding down the button will increment/decrement the number continuously.

Fast Forward/Reverse

1. Press button ⑫ of bank [10] for 2 seconds or more. "MANU" [44] will light.
2. Press the ▶▶ side of button [17] to fast-forward, or the ◀◀ side to reverse.

- Playback can be heard while fast-forwarding or reversing.

Pausing

The disc playback can be stopped temporarily by pressing ⑧ of button [10]. (The "PAUSE" will be displayed.) To cancel the pause, press the button again.

Repeat

You can select one of the play modes (repeat modes) listed below.

Play mode (repeat mode)	Operation
One-Track Repeat	Play the current track repeatedly. • When you perform track number search or fast forward or reverse, the mode changes to disc repeat mode. • Switching the multi-CD player being played or the disc switches to magazine repeat mode.
Disc Repeat	Play the same disc repeatedly. • Switching the multi-CD player being played or the disc switches to magazine repeat mode.
Magazine Repeat	Play all discs loaded in the magazine in the multi-CD player repeatedly. All discs in the magazine are played repeatedly from the first disc.
ALL Repeat*	The mode changes to this mode when 2 or more multi-play CD players are connected. Multi-CD players 1 to 4 are played.

* When 2 or more multi-CD players are connected.

(Built-in CD player's function)
Each press of button ⑫ in bank [10] causes the mode to change as follows:
One-Track Repeat ("RPT" [40] appears.) — Disc Repeat (Normal playback for built-in CD player) ("RPT" [40] will disappear.)

(Multi-CD player's function)
Each press of button ⑫ in bank [10] causes the mode to change as follows:
One-Track Repeat ("RPT" [40] appears.) — Disc Repeat ("DISC" [41] appears.) — Magazine Repeat ("M-CD" [42] appears.) — ALL Repeat ([40] [41] [42] will disappear.)

Random Play

The microcomputer of the CD player selects plays tracks on discs in random order. Random play is performed according to the current play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be played at random
One-Track Repeat	All tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	All tracks on the disc being played.
Magazine Repeat	All tracks on the discs in the magazine being played.
ALL Repeat*	All tracks on all discs in multi-CD players 1 to 4.

* When 2 or more multi-CD players are connected.

1. Select the desired random play mode (repeat mode).
2. Hold down button ⑧ in bank [10] for more than 2 seconds. ("RDM" appears on the display [43].) To cancel random play, hold down button ⑧ in bank [10] for more than 2 seconds again. ("RDM" disappears.)

• Since selections are played in random order, the same selection may be played twice in succession.

Using Scan Play

The first parts of each track are played in succession for about 10 seconds. This function is useful to search for the track or disc you want to listen to. Scan is performed according to the current play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be scanned and played
One-Track Repeat	All tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	All tracks on the disc being played.
Magazine Repeat	The first tracks of all the discs in the magazine being played.
ALL Repeat*	First tracks of all discs loaded in multi-CD players 1 to 4.

* When 2 or more multi-CD players are connected.

1. Select the desired scan play mode (repeat mode).
2. Press button ⑪ in bank [10]. ("SCAN" appears on the display.) The first parts of all tracks are played in succession for about 10 seconds.
3. When you hear the track you want, press button ⑪ in bank [10] again to cancel Scan. ("SCAN" disappears.) The track (disc) being played is when played to the end.

• The previous function automatically resumes when a piece of music with which Scan began returns.

ITS (Instant Track Selection)

(multi-CD player's function)
This function lets you program and play the tracks you want. You can listen to just your favorite tracks.

- The ITS function only operates when the multi-CD player is in playback mode.
- The ADPS function* of the multi-CD player lets you program up to 100 discs. (Up to 100 discs can be programmed including disc title inputs.)
  * ADPS: Automatic Disc Program Selection
- Up to 99 tracks can be programmed for a single disc.
- From the 100th disc, the data for a new disc will overwrite the data of the oldest disc, that has not been played back (information has not been updated).
- Tracks are programmed for each disc. Programmed tracks are not erased after the disc is changed.

Programming

1. Play the track you want to program.
2. Press button ⑩ in bank [10] to program the track. ("ITS" appears on the display for 3 seconds.)

- Program tracks while ITS play is not in progress. It is possible during scan play or random play.

ITS Play

(multi-CD player's function)
Tracks are played according to ITS play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be played by ITS
One-Track Repeat	Programmed tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	Programmed tracks on the disc being played.
Magazine Repeat	Programmed tracks on the discs in the magazine being played. • If the disc being played contains no programmed tracks, the next disc containing programmed tracks is played.
ALL Repeat*	Programmed tracks on all discs in all magazines in multi-play CD players 1 to 4. • If the disc (multi-CD) being played contains no programmed tracks, the next disc (multi-CD) containing programmed tracks is played.

* When 2 or more multi-CD players are connected.

1. Select the desired ITS play mode (repeat mode).
2. Hold down button ⑩ in bank [10] for more than 2 seconds. ("ITS.P" appears on the display.) To cancel ITS play, hold down button ⑩ in bank [10] for more than 2 seconds again. ("ITS.P" disappears.)

- If you try to play a track that is not programmed within the play range of the selected repeat mode by ITS, "EMPTY" will appear on the display for about 3 seconds, indicating that ITS play is not possible.
- You can perform scan play or random play during ITS play. In this case, scan play or random play applies to all the tracks stored in memory. (If the play mode is the magazine repeat mode or all repeat mode, scan play applies to all the tracks of the discs in the magazine stored in memory.)
- During ITS play, multi-CD players containing discs with programmed tracks are switched, and disc and track number search is performed on programmed tracks. So, you cannot switch to any tracks or discs that are not stored in memory.
- When you turn the power on or change the disc to be played, the multi-CD player may perform a preparatory operation (verifying there is a disc, reading disc information, etc.). "READY" is displayed during this time.

Erasing the ITS Program

You can erase one or all selections of the program for the disc being played by ITS.

To erase a single selection:

1. Start ITS play.
2. Play the track you wish to erase by using disc number search or track number search.
3. Hold down button ⑨ in bank [10] for more than 2 seconds.

- If programmed tracks are completely erased, "EMPTY" appears on the display and the ITS play will be canceled.

To erase the disc program:

1. Start normal play.
2. Play the disc you wish to erase by using disc number search.
3. Hold down button ⑨ in bank [10] for more than 2 seconds to erase the program. ("CLEAR" appears on the display for about 3 seconds.)

Disc Title Input

The title of the disc loaded in this unit and the title of the disc in the Multi-CD player can be stored to the memory. The title stored for the disc can be displayed.

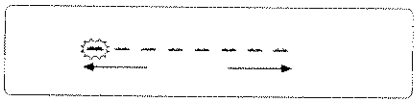
- This function is valid only when the Multi-CD player is connected to this unit.
- The ADPS function* of the multi-CD player lets you enter titles for up to 100 discs. (Up to 100 discs, including ITS, can be programmed.)

  * ADPS: Automatic Disc Program Selection
- A disc title can consist of up 8 characters for a single disc.
- From the 100th disc, the data for a new disc will overwrite the data of the oldest disc, that has not been played back (information has not been updated).
- One title is stored for each disc. The title stored for a disc is not erased after the disc is changed.

ENGLISH

Entering Titles

1. Select the disc for which you want to enter a title.
2. Hold down button ⑦ in bank [10] for more than 2 seconds to select title input mode.
3. Press the ◄◄ or ►► side of button [17] to select the input position. The input position moves continuously when you hold down either side of the button.



4. Select characters using the ▲ or ▼ side of button [16]. When you hold down either side of the button, the character changes continuously. Each press of the ▲ side changes the character from "A → B → C...", while each press of the ▼ side changes the character from "C → B → A". To enter a space, select the space sign (_).
5. Enter all characters by repeating steps 3 and 4.
6. Press button ⑦ in bank [10] to store them in memory.
   The title will appear on the display.

Display Switching

Pressing button ⑦ of bank [10] switches between the elapsed playback time display and the disc title display alternately.
Press button [14] during title indication to make the track display and playback time display appear for about 8 seconds.

- Nothing is displayed for discs having no titles.

Disc Title List
(multi-CD player's function)

You can list all discs loaded in the magazine being played. This function is convenient for checking discs in the magazine being played.
The disc title list function only works when the multi-CD player is in playback mode.
Each press of button ⑨ in bank [10] displays the titles of the discs in magazine being played in ascending order of disc number. The disc title list mode is displayed for about 8 seconds, then the normal operation display returns.

- Nothing is displayed for discs having no titles.
- Trays with no discs are skipped.

Select the disc to be played from the disc list display
(multi-CD player's function)

1. Press button ⑨ in bank [10] to display the disc title.
2. When the title of the disc you want to listen to is displayed, press button ⑦ in bank [10]. That disc is played.

CD sound quality adjustment function

A COMP (compression) function and D.B.E. (Dynamic Bass Emphasis) function can be used with this unit. The COMP and D.B.E. functions can also be used when a multi-CD player that has these functions is connected. (If you connect a Multi-CD player that does not feature these functions, even if you try to switch to these functions, "NO COMP" is displayed, indicating that switching is not possible.)

COMP (Compression) function

This function suppresses loud sounds while boosting quiet sounds to reduce the difference between the two. Use this function if there is distortion when you raise the volume.
When the COMP function is ON, "COMP" [39] lights in the display.

D.B.E. (Dynamic Bass Emphasis) function

When listening in a car, bass sound may be insufficient. This function boosts bass.
When the D.B.E. function is ON, "DBE" [45] lights in the display.

COMP and D.B.E. switching

You can switch between two COMP and D.B.E. levels. Level switching of both functions at the same time is not possible.

1. Press button ⑪ in Bank [10] for more than 2 seconds to select the switching mode.
2. Each time you press button ⑪ in Bank [10], the mode changes as follows:
   COMP OFF → COMP 1 → COMP 2 → COMP OFF → DBE 1 → DBE 2 → COMP OFF

- With both COMP and D.B.E., the second mode is more effective.

Error Display

If there is a problem with CD playback, an error code will be displayed.
(Ex.: "ERROR-10")
If an error is displayed, refer to the table below to identify the problem. If the error is displayed even after corrective action is taken, contact your dealer or the nearest authorized PIONEER Service Station.

D: Display
C: Cause
T: Treatment

D: ERROR-11, 12, 14, 17, 30
C: The disc is dirty.
T: Clean the disc.

D: ERROR-11, 12, 17, 30
C: The disc is scratched.
T: Replace the disc.

D: ERROR-11, 14 , 17
C: The disc is inserted with the label side down.
T: Insert the disc with the label side up.

D: ERROR-14
C: Unrecorded CD-R is being used.
T: Use the disc.

D: ERROR-20
C: An empty magazine is in the multi-CD player.
T: Insert discs into the magazine.

D: ERROR-10, 11, 12, 14, 17, 30, A0
C: Electrical or mechanical fault.
T: Turn off the car's ignition and turn it back on again. Or change the source to another one and then change it back to CD.

D: HEAT
C: The CD player's internal temperature is high.
T: Wait until the CD player's internal temperature goes down.

- If an error other than the above is displayed, refer to the multi-CD player's Owner's Manual.

SOUND SCAPE

Parts Identification

Fig. 1
[1] Sub-source volume adjustment
[9] SOUND SCAPE playback/setting mode switching

Fig. 2
[16] Sub-source track selection
[17] Main source track selection
[18] Sub-source volume adjustment

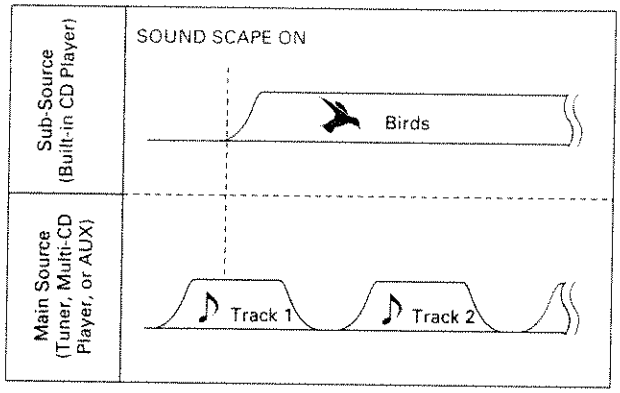
Fig. 5
[46] Sub-source sound effect designation (or track number)
[47] SOUND SCAPE mode symbol
[48] Lit : SOUND SCAPE playback
Flashing: Setting mode

The SOUND SCAPE Function

The SOUND SCAPE function plays the built-in CD player when you are listening to the tuner, a separately available multi-CD player, or the AUX source.
The two sources consist of the main source that plays in the usual way, and the sub-source that plays sound effects. The tuner, multi-CD player, or AUX source can be used as the main source, while only the built-in CD player can be used as the sub-source. The SOUND SCAPE function only works with these settings.
The SOUND SCAPE function has three modes, as described below.

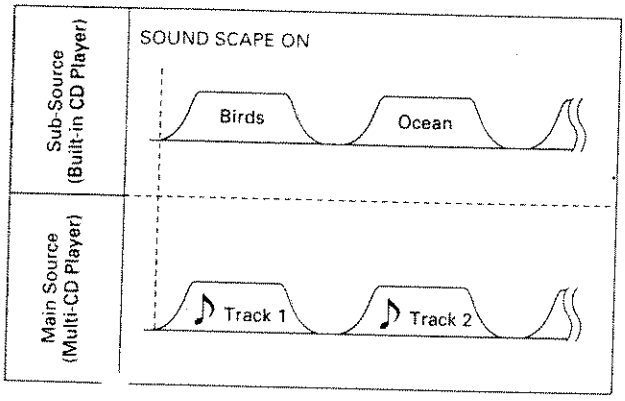
MUSIC-MODE I

Sub-source sound is output while you are listening to the main source. The sub-source repeatedly plays a single track that has been set beforehand.



MUSIC-MODE II (Program Mode)

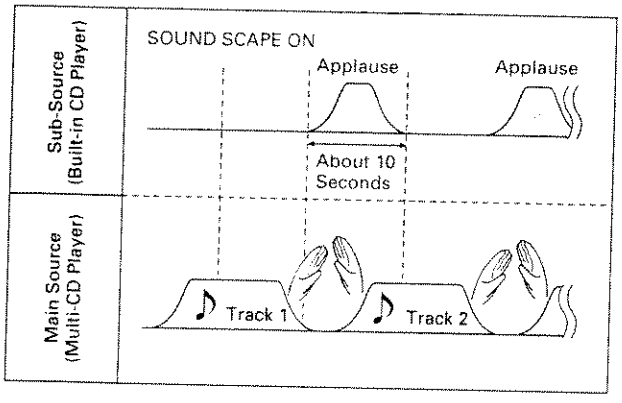
You can switch to MUSIC-MODE II only when you are listening to a multi-CD player as the main source. The sub-source sound is output during each main source track. You can set the sub-source sound effect you want for each main source track.



- If you sw to MUSIC-MODE II during scan or ITS playback, the main sour may not play from the start of a track.

BLANK-MODE

You can switch to BLANK-MODE only when you are listening to a multi-CD player as the main source. The sub-source sound is output for about ten seconds in the silent intervals between tracks. The sub-source sound is faded in when the main source sound falls to a certain level, and is later faded out.



- In BLANK-MODE, the sub-source sound may be output at the following times.
  - — If there is an extremely quiet passage in a main source track.
  - — If there are pauses in a main source track (such as in dialog).
  - — When a track number search is in progress.
- BLANK-MODE may not function if there is only a short interval between tracks.

Sub-Source CD Software

Use of the following CD software is recommended for the sub-source (built-in CD player) in order to make the most effective use of the SOUND SCAPE function.

Supplied CD Software

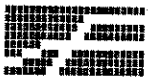
The supplied CD software has been produced specially for use as the SOUND SCAPE sub-source.

Commercially Available CD Software

CD software containing the sound of waves and other sound effects can be used. When using the SOUND SCAPE function, we recommend using CD software containing music on the main source (multi-CD player).

Using the SOUND SCAPE Function

1. Insert the sub-source CD software in the built-in CD player. (See "Using the Built-in CD Player" on page 13.)
   - Check the built-in CD player sound, then follow the procedure below.
2. Switch the source to the main source (tuner, multi-CD player, or AUX). (See "Switching the Source" on page 7.)
3. Switch to the SOUND SCAPE mode you want to use. Pressing button [9] switches the SOUND SCAPE mode as shown below.
   With the multi-CD player as the main source:
   MUSIC-MODE Ⅰ — MUSIC-MODE Ⅱ — BLANK-MODE — SOUND SCAPE OFF
   With the tuner or AUX as the main source:
   MUSIC-MODE Ⅰ — SOUND SCAPE OFF

SOUND SCAPE mode	Display	
	[47]	[48]
MUSIC-MODE Ⅰ		SOUND SCAPE
MUSIC-MODE Ⅱ		SOUND SCAPE
BLANK-MODE		SOUND SCAPE
SOUND SCAPE OFF (e.g.: During Multi-CD Player)		Off

- SOUND SCAPE playback in the selected mode starts about 3 seconds after the mode switching operation. (If the main source is the multi-CD player, display [47] stops flashing.) The display [46] sound effect name and [47] SOUND SCAPE mode symbol indications change back to the original indications after a few seconds. (When commercially available CD software is loaded in the sub-source, the track number is shown in display [46].)
- If the main source is the multi-CD player, you can switch to a different SOUND SCAPE mode during SOUND SCAPE playback by first pressing button [9] to start display [47] flashing, then pressing button [9] again while display [47] is flashing.
- SOUND SCAPE is not canceled when the main source is switched. To cancel SOUND SCAPE, press button [9] until SOUND SCAPE is turned OFF.
- If the disc is removed from the built-in CD player during SOUND SCAPE playback, SOUND SCAPE playback is canceled but main source playback continues.
- If the source is switched to the built-in CD player during SOUND SCAPE playback, playback starts from the track that was being played as the sub-source.

Setting Sub-Source Sound Effects

Sub-source sound effects can be set for each mode.

- When SOUND SCAPE playback is performed after installing the unit or pressing the Clear button, the sound effect to be played on the sub-source is set to track 1.

MUSIC-MODE Ⅰ

The track (sound effect) to be played repeatedly on the sub-source is set.

1. Perform the operations in steps 1 to 3 of "Using the SOUND SCAPE Function" and switch the SOUND SCAPE mode to MUSIC-MODE Ⅰ.
2. Press button [9] for 2 seconds or more to switch to the MUSIC-MODE Ⅰ setting mode ("SOUND SCAPE" [48] flashes). The name of the currently set sound effect is shown in display [46].
   - When commercially available CD software is loaded in the sub-source, the currently set track number is shown in display [46].
3. Press the ▲ or ▼ side of button [16] to choose the track to be played on the sub-source.
4. Press button [9] for 2 seconds or more to memorize the selected track. You will hear a beep when track memorization is finished.
5. Press button [9] to cancel the setting mode. ("SOUND SCAPE" [48] changes from flashing to constant illumination.)

MUSIC-MODE Ⅱ (Program Mode)

The track (sound effect) to be played on the sub-source can be set for each main source (multi-CD player) track.

- You can set the sound effect you want from track 1 through track 16 of the disc being played. For sound effects on tracks 17 onward, setting is performed automatically to sub-source track 1.
- Sound effects on up to 24 discs can be set as the main source.
  - — In the case of discs for which disc title input has been performed with the multi-CD player's disc title input function, sound effect setting can be performed separately for each disc. (See "Disc Title Input" on page 19.)
  - — If a disc title has not been input for a disc, sound effect setting for that disc cannot be performed separately from other discs. (The same setting applies to all discs for which input has not been performed.)
- Sound effect setting is performed for each main source disc. The settings for a main source disc are not deleted when that disc is changed.
- If settings are made for more than 24 discs, the oldest disc settings are deleted in order, and the new disc settings are memorized.

1. Perform the operations in steps 1 to 3 of "Using the SOUND SCAPE Function" and switch the SOUND SCAPE mode to MUSIC-MODE Ⅱ.
2. Play the disc for which you want to make a setting using a disc number search.
3. Press button [9] for 2 seconds or more to switch to the MUSIC-MODE Ⅱ setting mode ("SOUND SCAPE" [48] flashes). The name of the sub-source sound effect is shown in display [46], and the main source track number in display [47].
   - When commercially available CD software is loaded in the sub-source, the track number is shown in display [46].
4. Press the ◄◄ or ►► side of button [17] to choose the main source track.

5. Press the ▲ or ▼ side of button [16] to choose the track to be played on the sub-source.
6. Press button [9] for 2 seconds or more to memorize the selected track. You will hear a beep when track memorization is finished.
7. You can make settings for tracks up to track 16 by repeating the operations in steps 4 to 6.
8. Press button [9] to cancel the setting mode. ("SOUND SCAPE" [48] changes from flashing to constant illumination.)
9. You can make settings for other discs by repeating the operations in steps 2 to 8.

BLANK-MODE

The sound effect to be played between main source (multi-CD player) tracks can be set.

1. Perform the operations in steps 1 to 3 of "Using the SOUND SCAPE Function" and switch the SOUND SCAPE mode to BLANK-MODE.
2. Press button [9] for 2 seconds or more to switch to the BLANK-MODE setting mode ("SOUND SCAPE" [48] flashes). The name of the currently set sound effect is shown in display [46].
   - When commercially available CD software is loaded in the sub-source, the currently set track number is shown in display [46].
3. Press the ▲ or ▼ side of button [16] to choose the track to be played on the sub-source.
4. Press button [9] for 2 seconds or more to memorize the selected track. You will hear a beep when track memorization is finished.
5. Press button [9] to cancel the setting mode. ("SOUND SCAPE" [48] changes from flashing to constant illumination.)

Sub-Source Volume Adjustment

You can adjust the volume of the sub-source played with the SOUND SCAPE function. (The same volume is set for all modes.)

1. Perform the operations in steps 1 to 3 of "Using the SOUND SCAPE Function" to perform SOUND SCAPE playback.
2. Press button [9] for 2 seconds or more to switch to the SOUND SCAPE setting mode ("SOUND SCAPE" [48] flashes).
3. Press the (+) side of button [1] or [18] to increase the sub-source volume, or the (–) side to decrease the volume.
4. Press button [9] to cancel the SOUND SCAPE setting mode. ("SOUND SCAPE" [48] changes from flashing to constant illumination.)

Using the Clock

Parts Identification

Fig. 1

[8] Clock
[11] ① Hour adjustment
② Minute adjustment
③ Time signal adjustment

Displaying the Time

Pressing button [8] will turn the display to time indication. Pressing button [8] again will cancel the time indication.

- The clock display can be used only when the main unit is in operation.
- When the clock display is ON, pressing other buttons will release the clock display. The display will be restored approximately 25 seconds after the button operation has been completed.

Adjusting the Time

Adjusting Hours

While holding down button [8] , press button ① in bank [11], to adjust the hour setting of the clock. Each press of button ①, advances the hour setting by one hour, and holding it down advances the setting at high speed.

Adjusting the Minutes

While holding down button [8], press button ② in Bank [11], to adjust the minute setting of the clock. Each press button ②, advances the minute setting by one minute, and holding it down advances the setting at high speed.

- After the minute is adjusted, the clock will start from 0 second when button [8] is released.

Adjust the clock with the "Immediate clock adjustment"

Hold down button [8] and press button ③ in Bank [11]. The time becomes "○○:00".

- If the "minute" indication is 00 to 29, it is discarded, and the clock starts. (Example: If the time is "10:18", it becomes "10:00".)
- If the "minute" indication is 30 to 59, it is rounded up, and the clock starts. (Example: If the time is "10:36", it becomes "11:00".)

Learn Function

Parts Identification

Fig. 1

[5] Learn Mode

Fig. 2

[13] Learn

One of the buttons on this unit can be memorized in button [13] on the remote controller.

1. Press button [5] for 2 seconds or more to set the learn mode. ("LEARN" appears on the display.)
   - The learn mode is canceled after 8 seconds.
2. Press the button on the unit which you want to memorize in the remote controller.
   - Button [2] cannot be memorized.

Regarding the Cellular Telephone Muting

When a call is received or placed with a cellular telephone, the cellular telephone muting will turn ON. When the phone is hung up, the muting will be canceled.

- CD playback will be paused.
- No sound is produced.
- "CALL" will be displayed.
- The audio operation can not be done except volume control.

ENGLISH

Specifications

General

Power source ..... 14.4 V DC (10.8 — 15.6 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 8.0 A
Dimensions
(DIN) (chassis) ..... 178 (W) × 50 (H) × 157 (D) mm
(nose) ..... 188 (W) × 58 (H) × 16 (D) mm
(D) (chassis) ..... 178 (W) × 50 (H) × 162 (D) mm
(nose) ..... 170 (W) × 46 (H) × 11 (D) mm
Weight ..... 1.7 kg

Amplifier

Continuous power output is 15 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output ..... 35 W × 4 (EIAJ)
Load impedance ..... 4Ω (4 — 8Ω allowable)
Preout output level/output impedance ..... 500 mV/1 kΩ
Tone controls (bass) ..... ±12 dB (100 Hz)
(treble) ..... ±12 dB (10 kHz)
Loudness contour ..... +10 dB (100 Hz), +7 dB (10 kHz)
(Volume: –30 dB)

Subwoofer

Crossover frequency ..... 50 Hz/ 80 Hz/ 125 Hz
Crossover slope ..... –12 dB/oct

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal format ..... Sampling frequency: 44.1 kHz
Number of quantization bits: 16; linear
Frequency characteristics ..... 5 — 20,000 Hz (±1 dB)
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)
Dynamic range ..... 90 dB (1 kHz)
Number of channels ..... 2 (stereo)

FM tuner

Frequency range ..... 87.5 — 108 MHz
Usable sensitivity ..... 8 dBf (0.6 µV/75Ω, mono, S/N: 30dB)
50 dB quieting sensitivity ..... 13 dBf (1.2 µV/75Ω, mono)
Signal-to-noise ratio ..... 70 dB (IEC-A network)
Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 25 — 15,000 Hz (±3 dB)
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range ..... 531 — 1,602 kHz (9 kHz)
530 — 1,710 kHz (10 kHz)
Usable sensitivity ..... 18 µV (25 dB) (S/N: 20 dB)
Selectivity ..... 50 dB (±9 kHz)
50 dB (±10 kHz)

Note:

Specifications and the design are subject to possible modification without notice due to improvements.